



1/12

FIG. 1

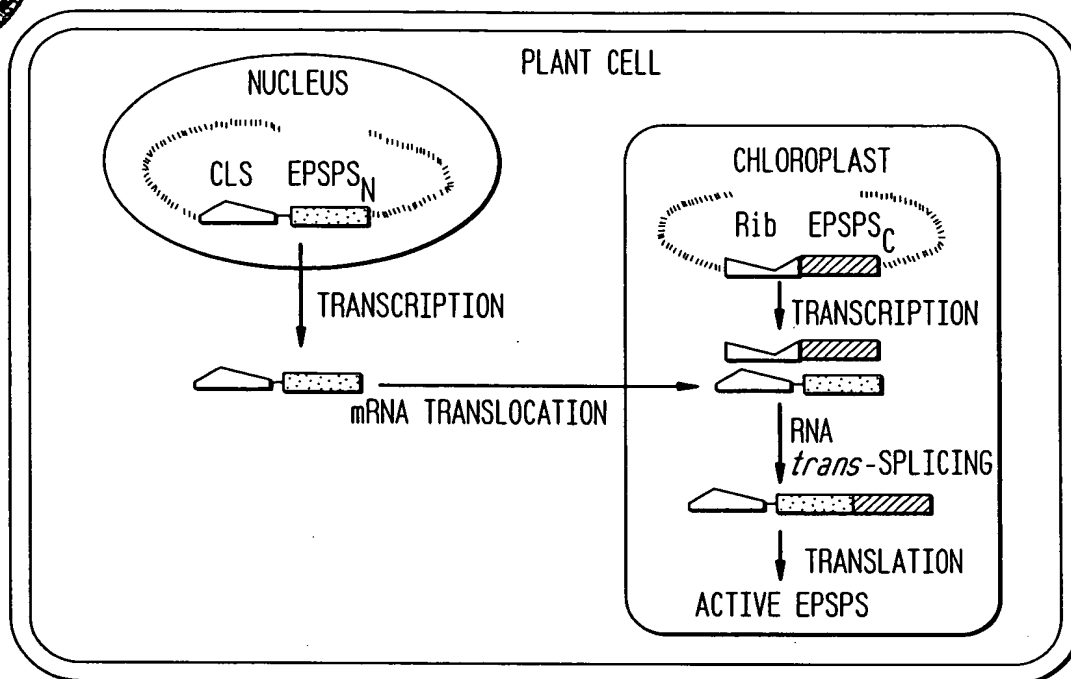
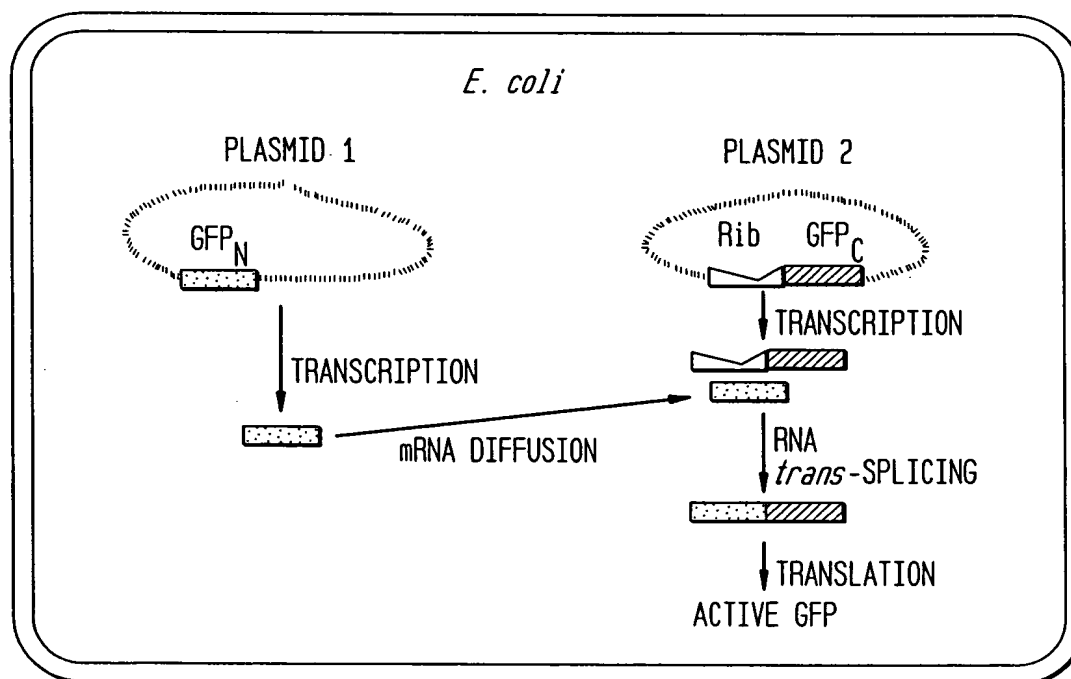


FIG. 2



[illegible]

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FIG. 4

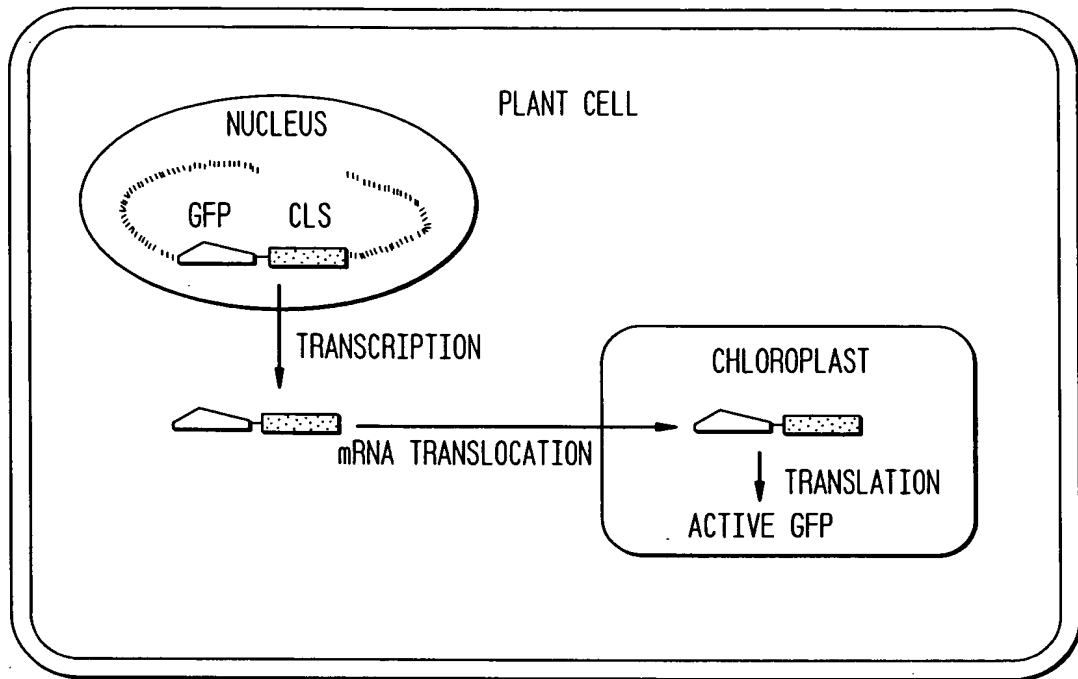


FIG. 5

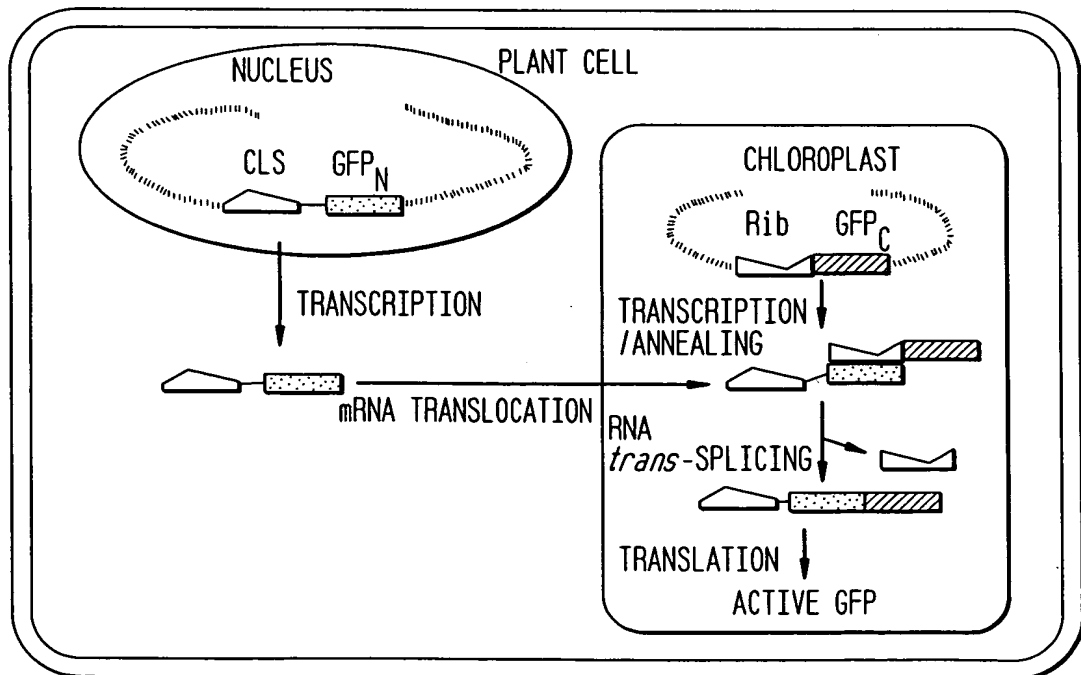


FIG. 6

SEQ ID NO:3

1 tttattagaa caagaagtga ggatatgatt aaactttgtt tgacgaaacc
51 aggtctgttc cgactttccg actctgagtt tcgacttgtg agagaaggag
101 gagtcgtggt gaacttttat taaaaaaatt agttcactcg tcttcaatct
151 cttgatcact tcgtctcttc agggaaagat gggaagaaca ctgatgagtc
201 tcgcaaggtt tactcctcta tcttcattgt ttttttacia aatcttg

FIG. 7

FIG. 8A

pVUG1 segment 5689-6757
(SEQ ID NO:4)

```
5689  tttattagaa caagaagtga ggatatgatt aaactttggt tgacgaaacc
5739  aggtctgttc cgactttccg actctgagtt tcgacttggt agagaaggag
5789  gagtcgtggt gaacttttat taaaaaaatt agttcactcg tcttcaatct
5839  cttgatcact tcgtgctagc atgtatttgg caaatcaaat accatggtct
5889  aataatcaaa cattctgatt agttgataat attagtatta gttggaaatt
5939  ttgtgaaaga ttctatgaa aagtttcatt aacacggaat tcgtgtcgag
5989  tagaccttgt tgttgtgaga attcttaatt catgagttgt agggagggat
6039  ttATGAGTAA AGGAGAAGAA CTTTCACTG GAGTTGTCCC AATTCTTGT
6089  GAATTAGATG GTGATGTTAA TGGGCACAAA TTTCTGTCA GTGGAGAGGG
6139  TGAAGGTGAT GCAACATACG GAAAACTTAC CCTTAAATTT ATTTGCACTA
6189  CTGGAAAACT ACCTGTTCCA TGGCCAACAC TTGTCCTAC TTTCTCTTAT
6239  GGTGTTCAAT GCTTTTCAAG ATACCCAGAT CATATGAAGC GGCACGACTT
6289  CTTCAAGAGC GCCATGCCTG AGGGATACGT GCAGGAGAGG ACCATCTCTT
6339  TCAAGGACGA CGGGAACCTAC AAGACACGTG CTGAAGTCAA GTTTGAGGGA
6389  GACACCCTCG TCAACAGGAT CGAGCTTAAG GGAATCGATT TCAAGGAGGA
6439  CGGAAACATC CTCGGCCACA AGTTGGAATA CAACTACAAC TCCCACAACG
6489  TATACATCAC GGCAGACAAA CAAAAGAATG GAATCAAAGC TAACTTCAAA
6539  ATTAGACACA ACATTGAAGA TGAAGCGTT CAACTAGCAG ACCATTATCA
6589  ACAAATACT CCAATTGGCG ATGGCCCTGT CCTTTTACCA GACAACCATT
6639  ACCTGTCCAC ACAATCTGCC CTTTCGAAAG ATCCCAACGA AAAGAGAGAC
6689  CACATGGTCC TTCTTGAGTT TGTAACAGCT GCTGGGATTA CACATGGCAT
6739  GGATGAACTA TACAAATAA
```

FIG. 8B

pVUG2 segment 5689-6757
(SEQ ID NO:5)

5689 acttgtgaga gaaggaggag tcgtggtgaa cttttattaa aaaaattagt
5739 tcactcgtct tcaatctctt gatcacttcg tctcttcagg gaaagatggg
5789 aagaacactg atgagtctcg caaggtttac tcctctatct tcattgtttt
5839 ttacaaaaat cttggctagc atgtatttgg caaatcaaat accatggctt
5889 aataatcaaa cattctgatt agttgataat attagtatta gttggaaatt
5939 ttgtgaaaga ttcctatgaa aagtttcatt aacacggaat tcgtgtcgag
5989 tagaccttgt tgttgtgaga attcttaatt catgagttgt agggagggat
6039 ttATGAGTAA AGGAGAAGAA CTTTCACTG GAGTTGTCCC AATTCTTGT
6089 GAATTAGATG GTGATGTTAA TGGGCACAAA TTTCTGTCA GTGGAGAGGG
6139 TGAAGGTGAT GCAACATACG GAAACTTAC CCTTAAATT ATTTGCACTA
6189 CTGGAAACT ACCTGTTCCA TGGCCAACAC TTGCTACTAC TTTCTTTAT
6239 GGTGTTCAAT GCTTTTCAAG ATACCCAGAT CATATGAAGC GGCACGACTT
6289 CTTCAAGAGC GCCATGCCTG AGGGATACGT GCAGGAGAGG ACCATCTCTT
6339 TCAAGGACGA CGGGAACACT AAGACACGTG CTGAAGTCAA GTTTGAGGGA
6389 GACACCCTCG TCAACAGGAT CGAGCTTAAG GGAATCGATT TCAAGGAGGA
6439 CGGAAACATC CTCGGCCACA AGTTGGAATA CAACTACAAC TCCCACAACG
6489 TATACATCAC GGCAGACAAA CAAAAGAATG GAATCAAAGC TAACTTCAAA
6539 ATTAGACACA ACATTGAAGA TGGAAGCGTT CAACTAGCAG ACCATTATCA
6589 ACAAATACT CCAATTGGCG ATGGCCCTGT CCTTTACCA GACAACCATT
6639 ACCTGTCCAC ACAATCTGCC CTTTCGAAAG ATCCCAACGA AAAGAGAGAC
6689 CACATGGTCC TTCTTGAGTT TGTAACAGCT GCTGGGATTA CACATGGCAT
6739 GGATGAACTA TACAAATAA

FIG. 8C

pVUG3 segment 6833-7901
(SEQ ID NO:6)

6833 tcttcagga aagatgggaa gaacactgat gagtctcgca aggtttactc
6883 ctctatcttc attgtttttt tacaaaaatct tgtttattag aacaagaagt
6933 gaggatatga ttaaactttg ttgacgaaa ccaggctgt tccgactttc
6983 cgactctgag tttcgctagc atgtatttgg caaatcaa at accatggtct
7033 aataatcaaa cattctgatt agttgataat attagtatta gttggaaatt
7083 ttgtgaaaga ttcctatgaa aagtttcatt aacacggaat tcgtgtcgag
7133 tagaccttgt tgttgtgaga attcttaatt catgagttgt agggagggat
7183 ttATGAGTAA AGGAGAAGAA CTTTCTACTG GAGTTGTCCC AATTCTTGTT
7233 GAATTAGATG GTGATGTTAA TGGGCACAAA TTTTCTGTCA GTGGAGAGGG
7283 TGAAGGTGAT GCAACATACG GAAACTTAC CCTTAAATTT ATTTGCACTA
7333 CTGGAAACT ACCTGTTCCA TGGCCAACAC TTGTCACTAC TTTCTCTTAT
7383 GGTGTTCAAT GCTTTTCAAG ATACCCAGAT CATATGAAGC GGCACGACTT
7433 CTTCAAGAGC GCCATGCCTG AGGGATACGT GCAGGAGAGG ACCATCTCTT
7483 TCAAGGACGA CGGGAACAC AAGACACGTG CTGAAGTCAA GTTTGAGGGA
7533 GACACCCTCG TCAACAGGAT CGAGCTTAAG GGAATCGATT TCAAGGAGGA
7583 CGGAAACATC CTCGGCCACA AGTTGGAATA CAACTACAAC TCCCACAACG
7633 TATACATCAC GGCAGACAAA CAAAAGAATG GAATCAAAGC TAACTTCAAA
7683 ATTAGACACA ACATTGAAGA TGGAAGCGTT CAACTAGCAG ACCATTATCA
7733 ACAAATACT CCAATTGGCG ATGGCCCTGT CCTTTTACCA GACAACCATT
7783 ACCTGTCCAC ACAATCTGCC CTTTCGAAAG ATCCCAACGA AAAGAGAGAC
7833 CACATGGTCC TTCTTGAGTT TGTAACAGCT GCTGGGATTA CACATGGCAT
7883 GGATGAACTA TACAAATAA

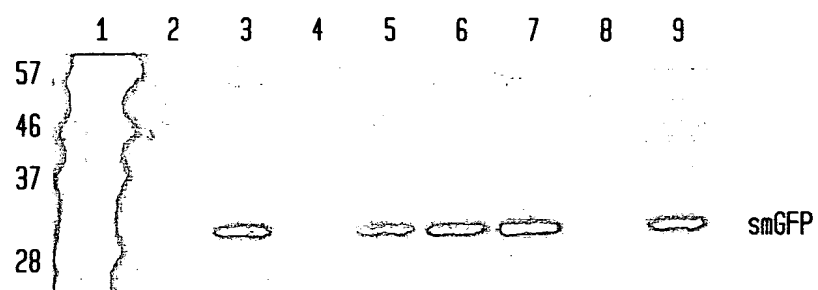
FIG. 9

FIG. 10

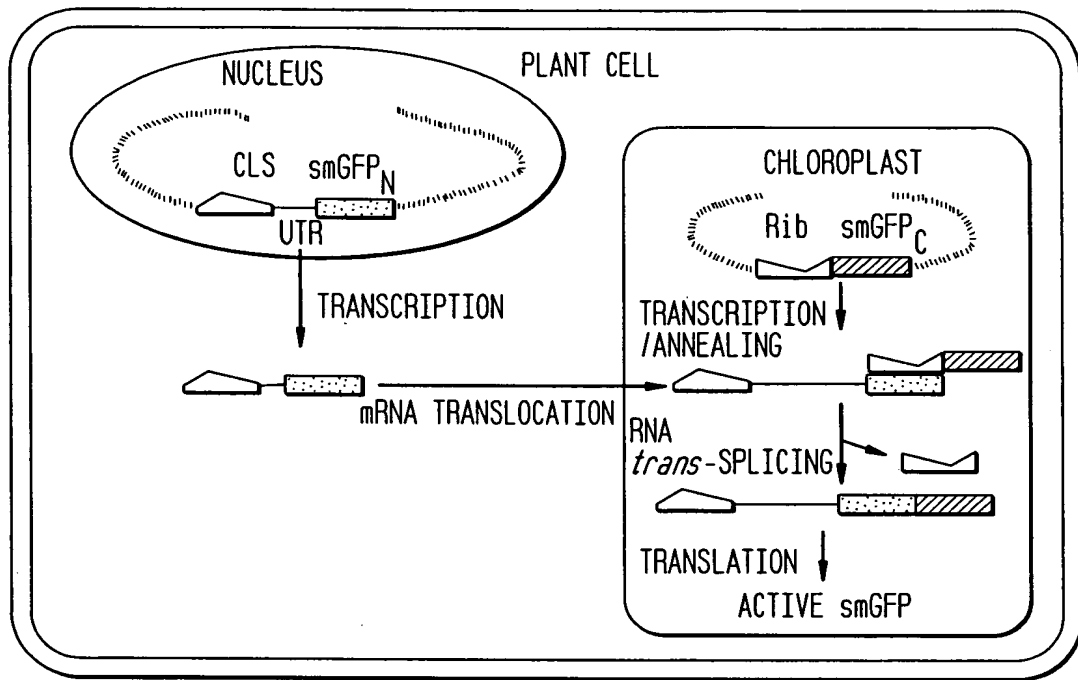


FIG. 11A

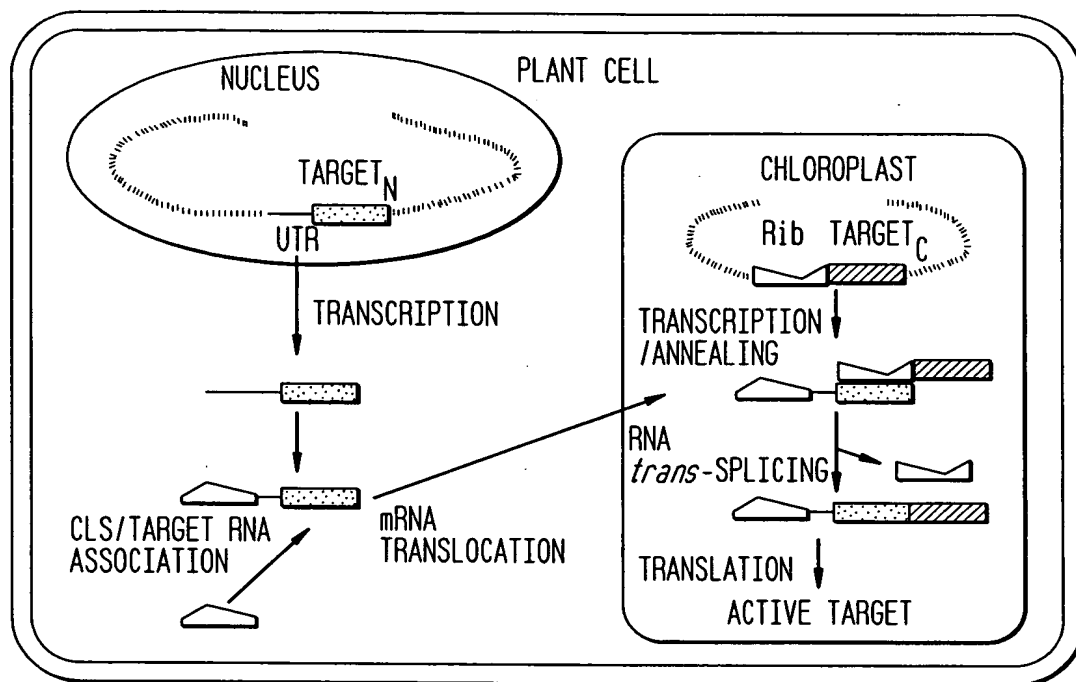


FIG. 11B

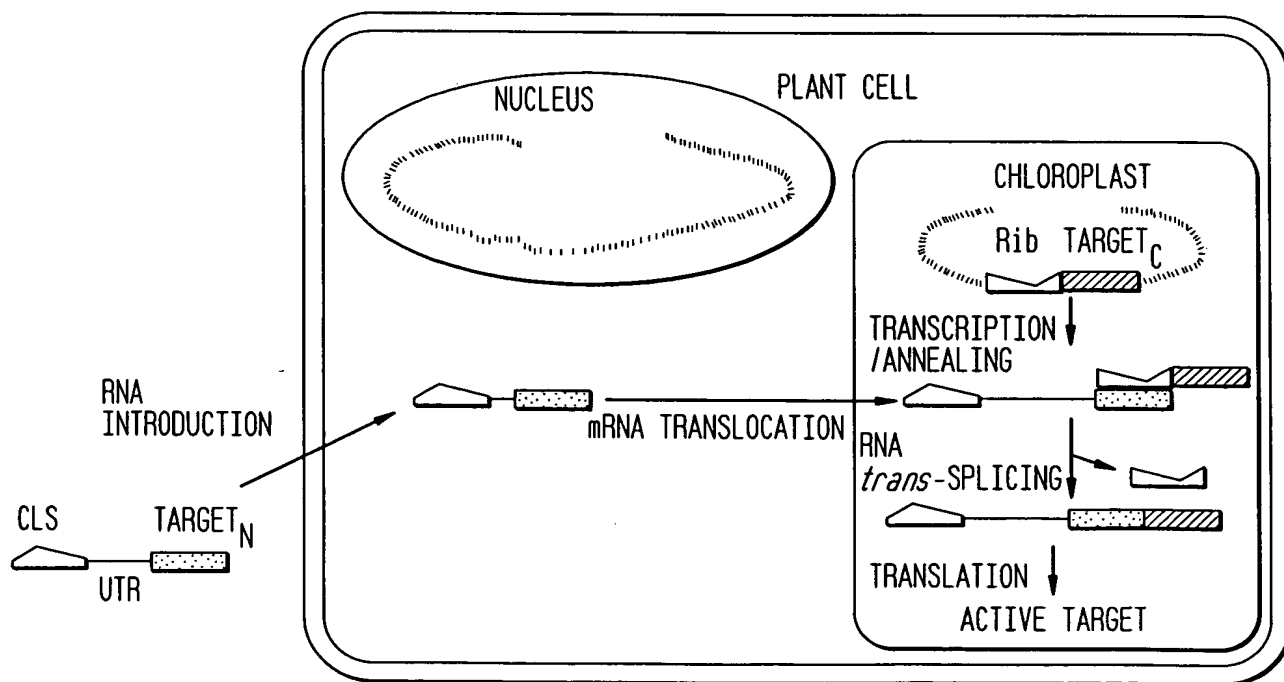


FIG. 11C

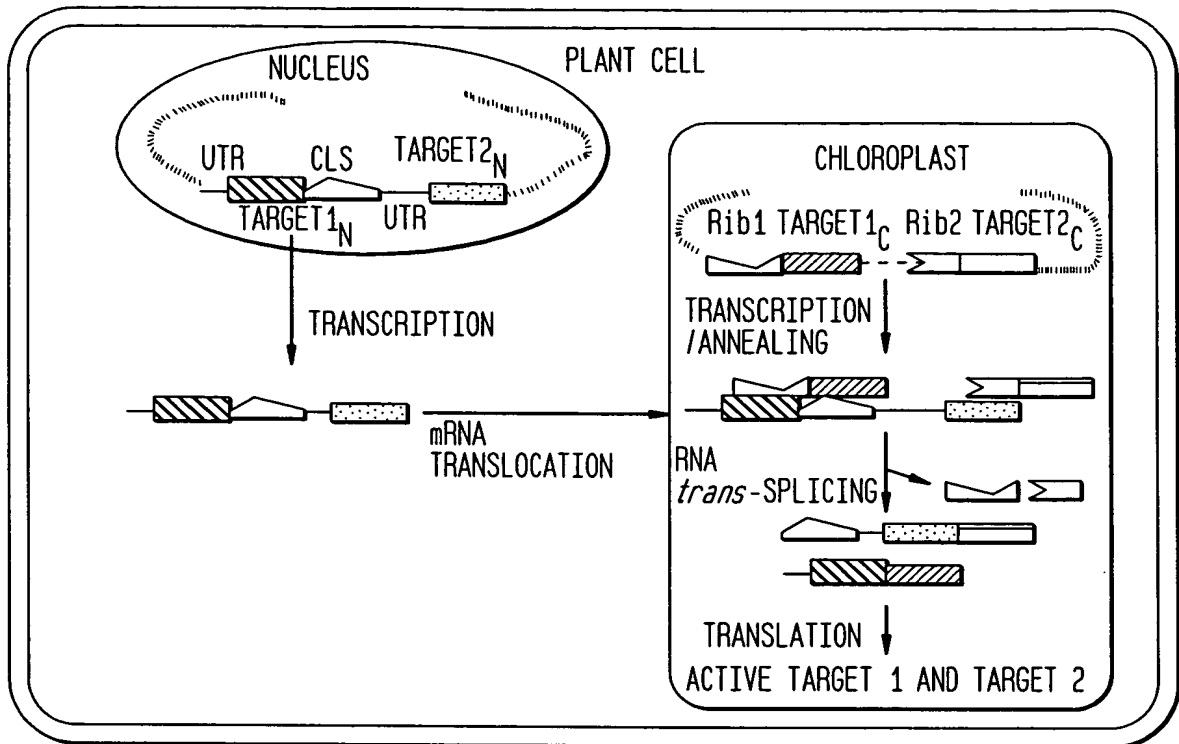


FIG. 11D

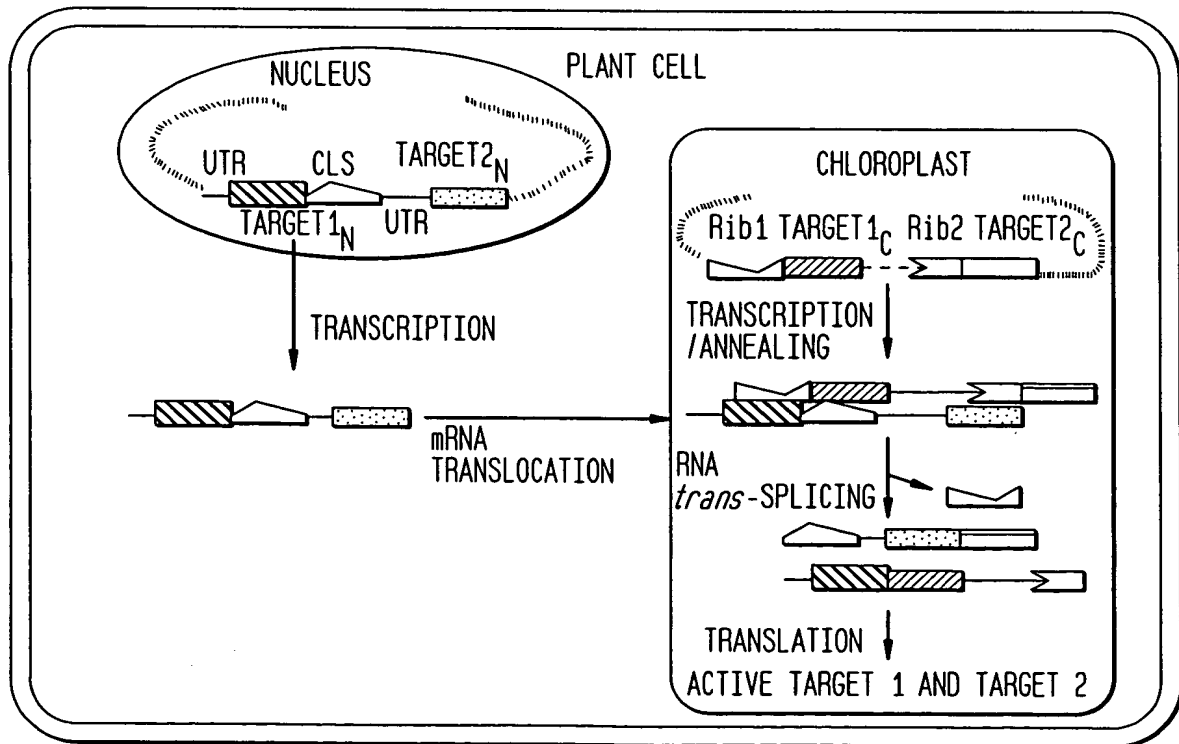


FIG. 11E

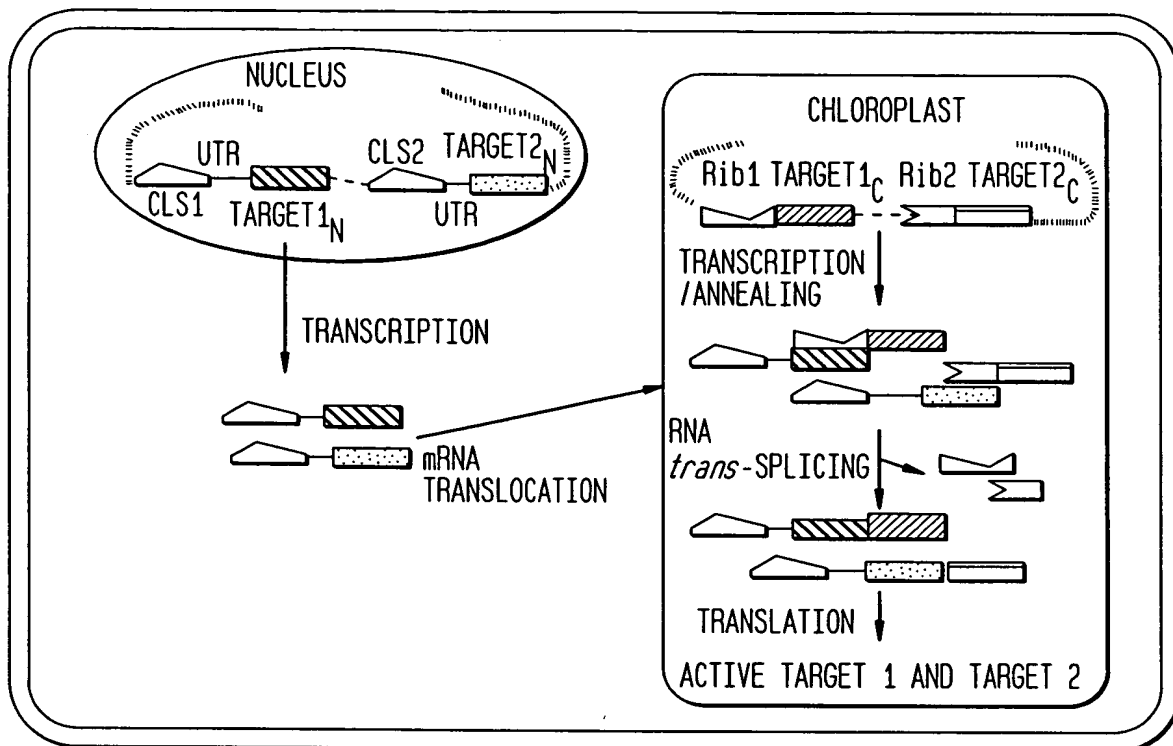


FIG. 11F

